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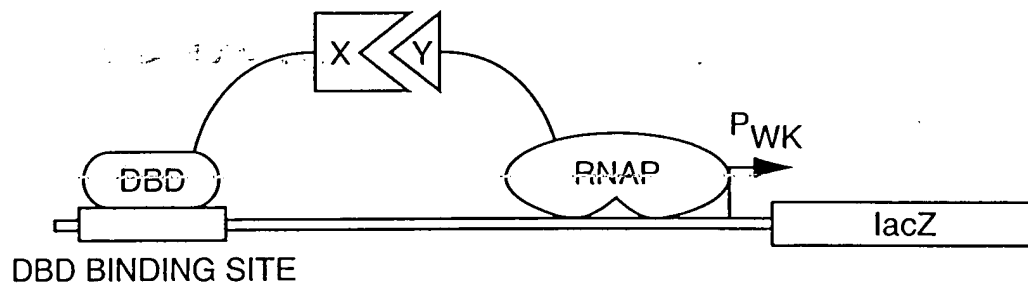


FIG. 1A

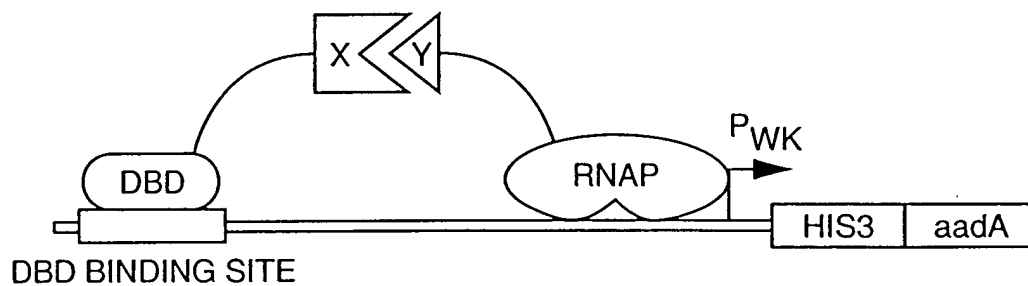


FIG. 1B

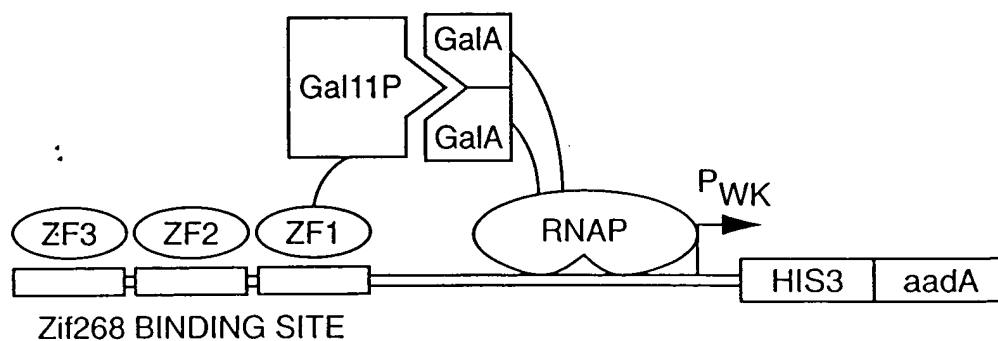


FIG. 1C

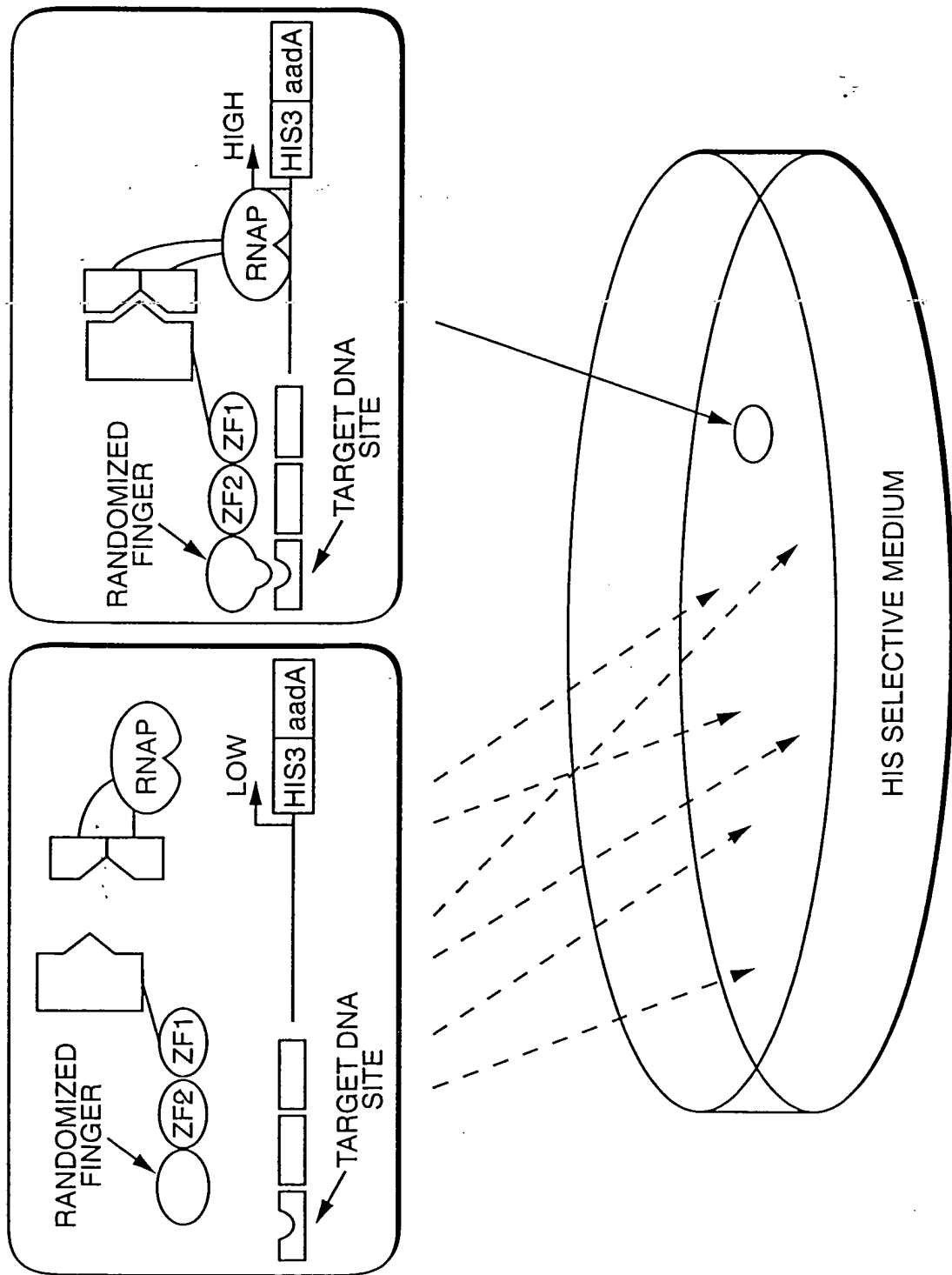
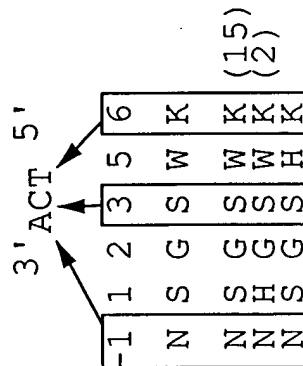


FIG. 2



GROUP I:
FIRST SELECTION:
 SECOND SELECTION:

PHAGE DISPLAY
CONSENSUS:
 T _ T N _ S

FROM THE
TATA SELECTION:
 -1 1 2 3 5 6
 R R W L K L
 R K W L Q L
 R K W L R L (2)

FROM THE
p53 SELECTION:
 -1 1 2 3 5 6
 R K W L R L
 R K W L R L
 R K W L R L
 R K W L R L

FROM THE
NRE SELECTION:
 -1 1 2 3 5 6
 R K W L R L
 R K W L R L
 R K W L R L

FIG. 3C

FIG. 3D

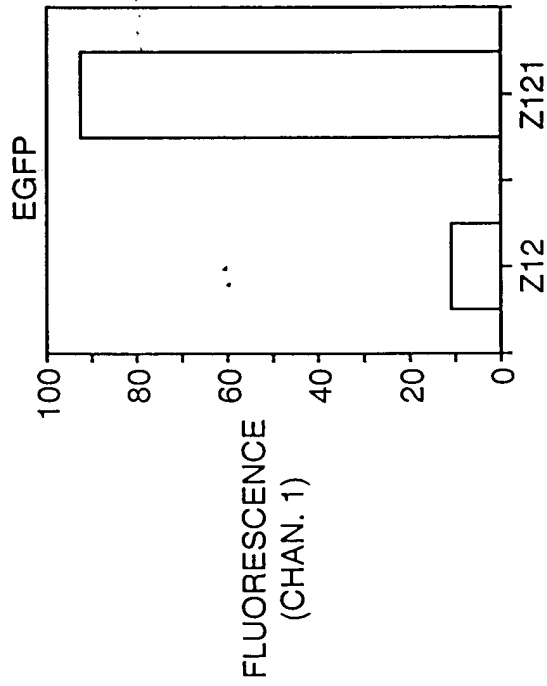


FIG. 4A

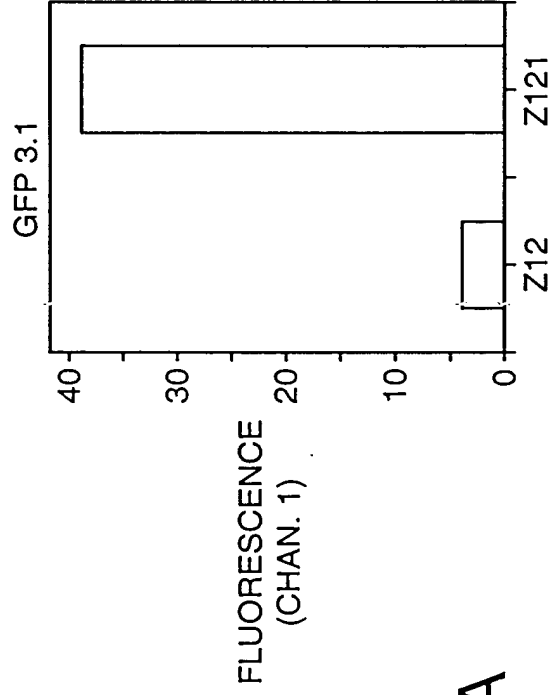


FIG. 4B

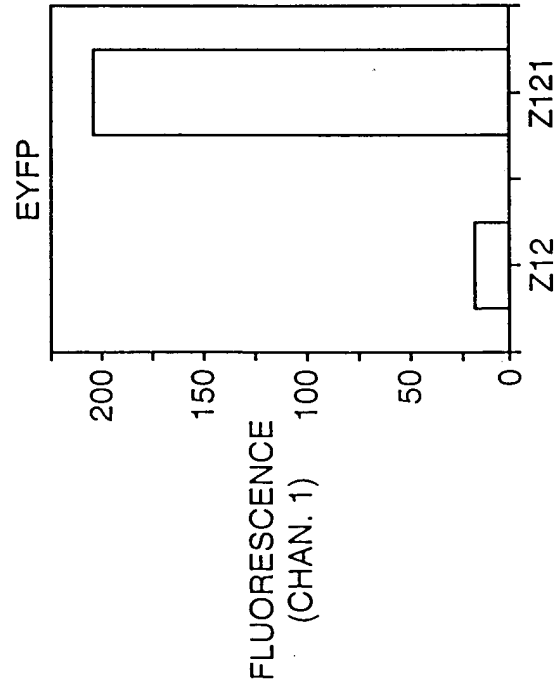


FIG. 4C

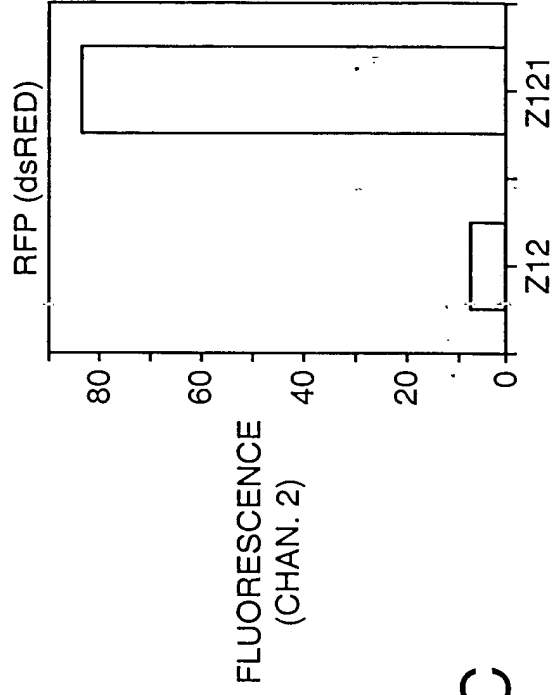


FIG. 4D

09990762-111401

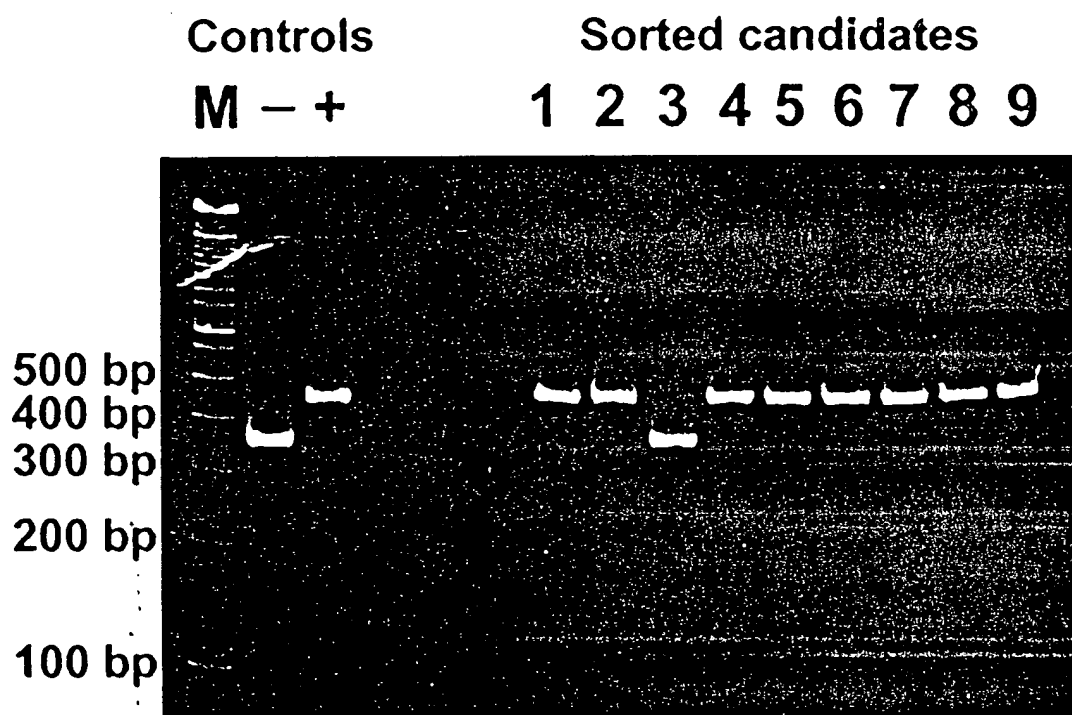


Fig. 5

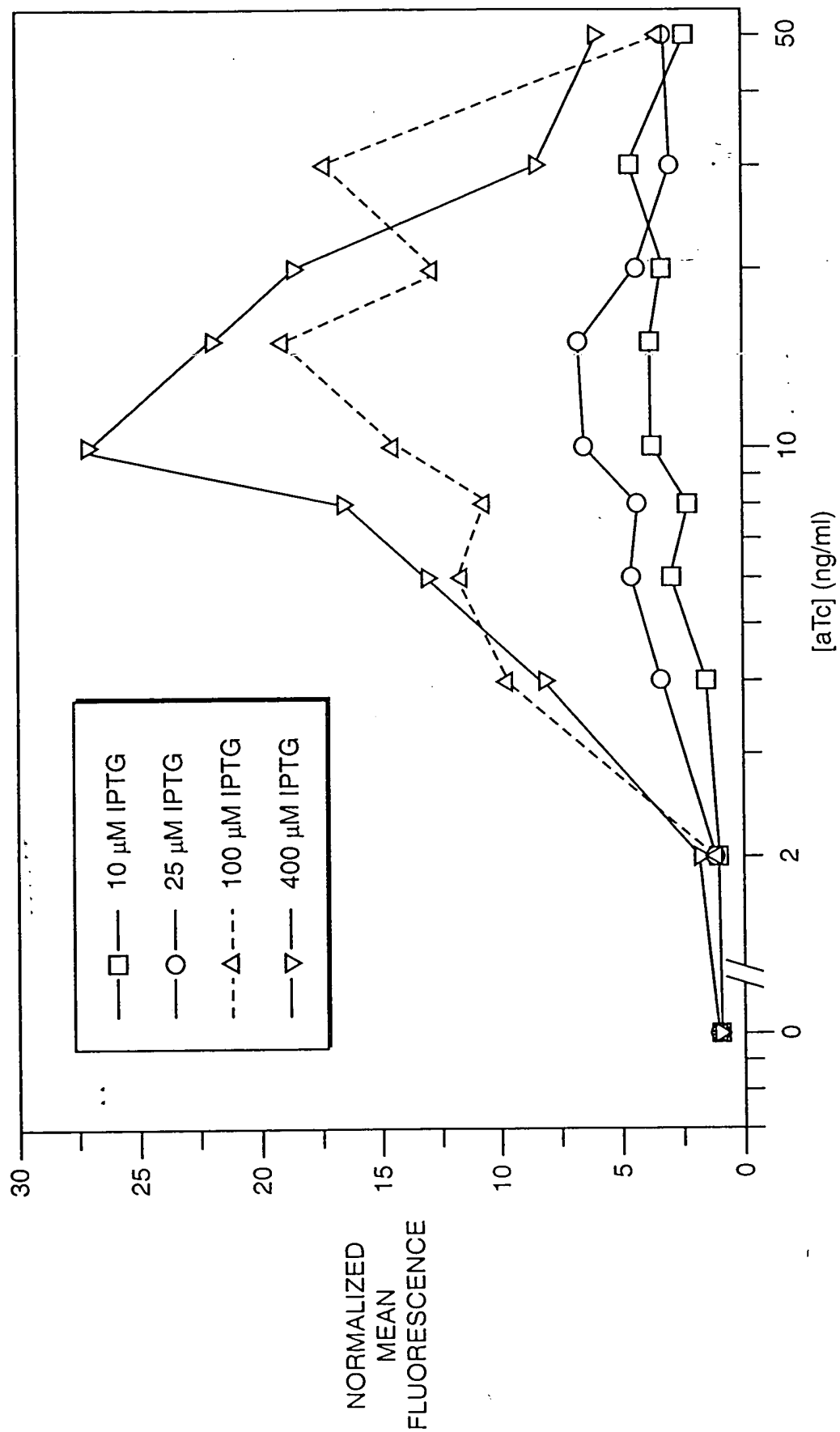


FIG. 6

REPORTER CONSTRUCT #2

REPORTER CONSTRUCT #1

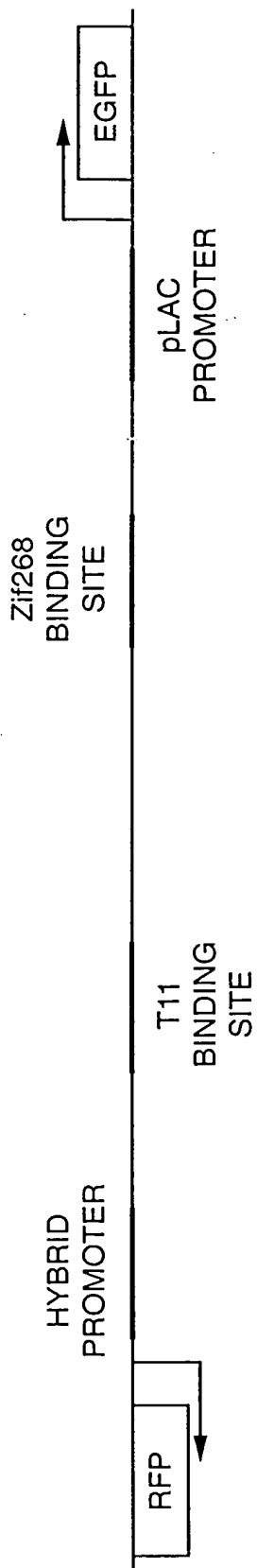


FIG. 7

FIG. 8A

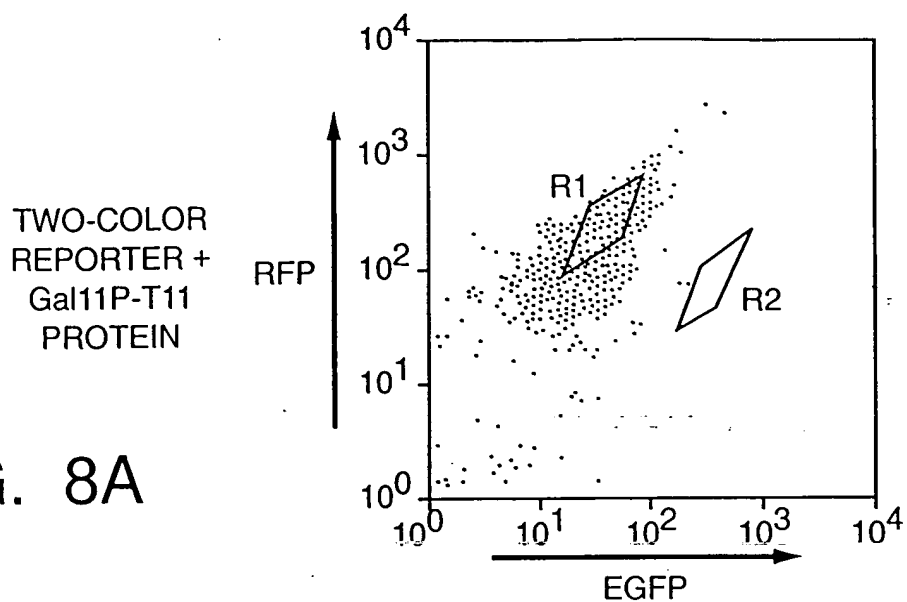


FIG. 8B

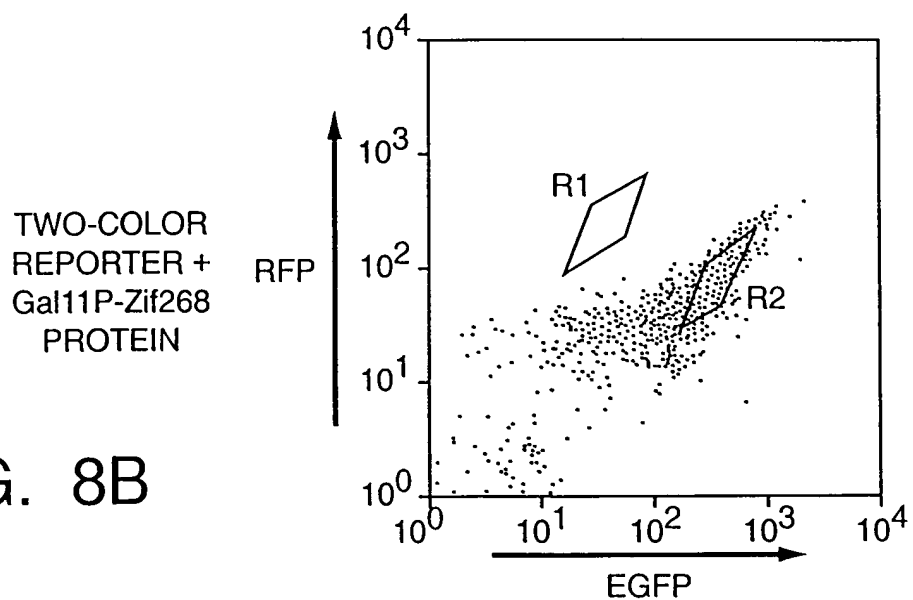
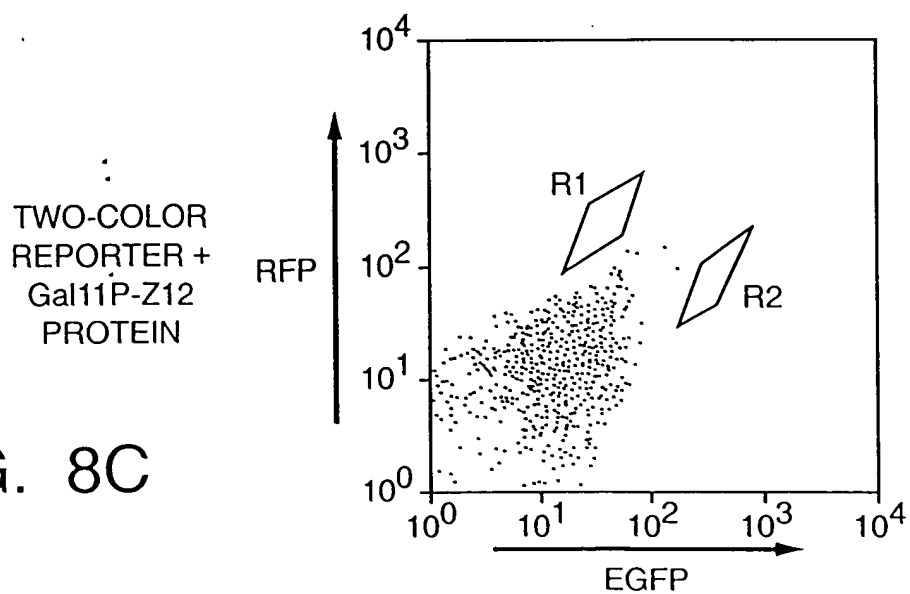


FIG. 8C



09990762-11401

0990762.11401

P53^{ZF} *IN VITRO* SITE SELECTION CONSENSUS SEQUENCE:

CXGGACACGTX

(WHERE X = NO CLEAR PREFERENCE)

IN VIVO SITE SELECTION LIBRARY

CGGGANNNNNNG

(WHERE N = A MIXTURE OF A, G, C, AND T)

SELECTED CLONES:

SEQUENCE	# OF CLONES
CGGGAC <u>AC</u> GTG	9
CGGGAC <u>AT</u> GTG	5
CGGGAC <u>AC</u> G	2

SEQUENCE	FOLD ACTIVATION
CGGGAC <u>AC</u> GTG	18.6 ± 2.7
CGGGAC <u>AT</u> GTG	12.0 ± 0.5
CGGGAC <u>AC</u> G	12.6 ± 1.9

FIG. 9

FIG.10

In vivo site selection

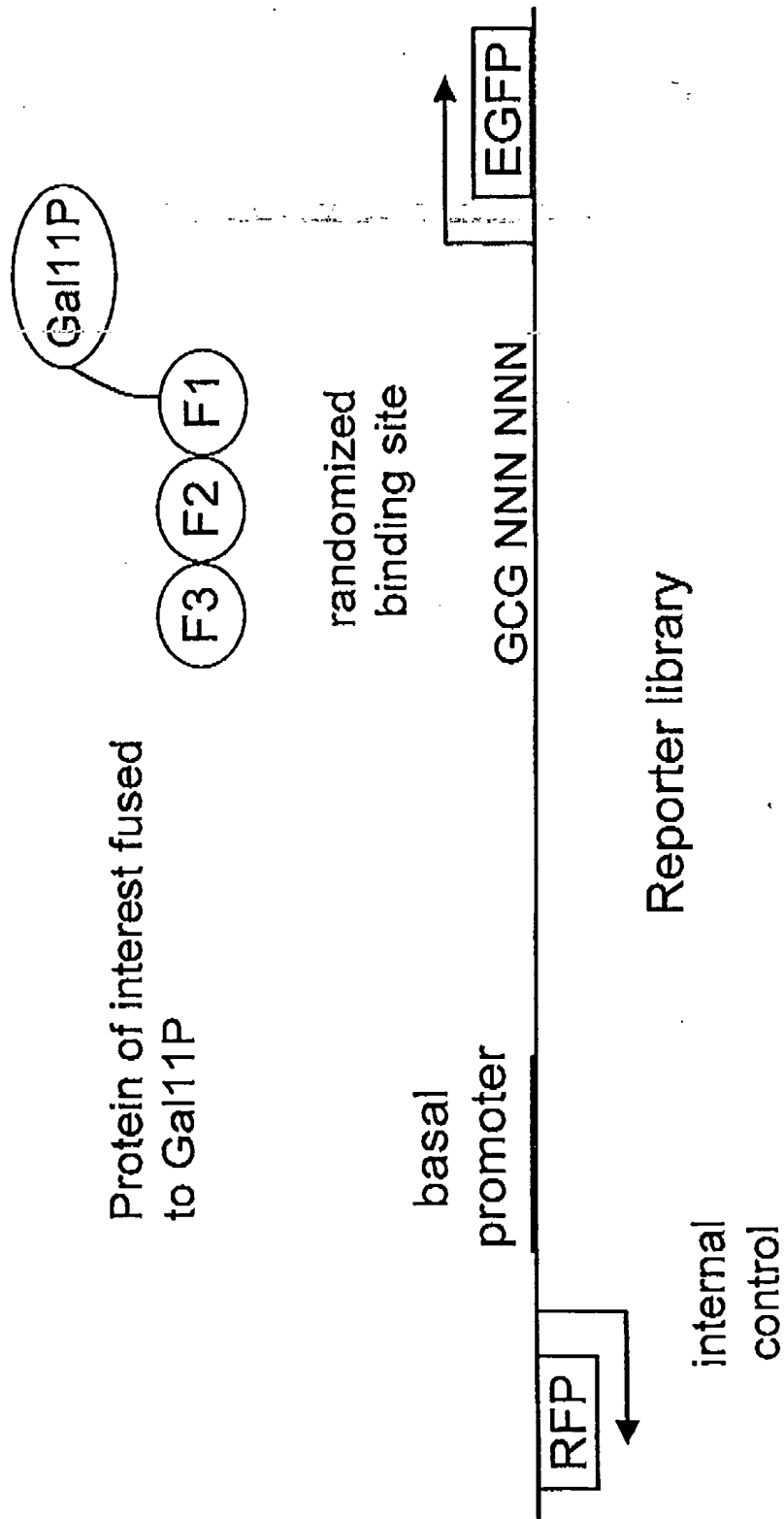


FIG. 11

Selecting Dimerization Domains

Tail to Tail

Variable spacing between sites

Randomized peptides on one monomer can interact with any portion of other monomer, only one possibility is shown

If using FACS version, can use half site driving RFP as counter-selection

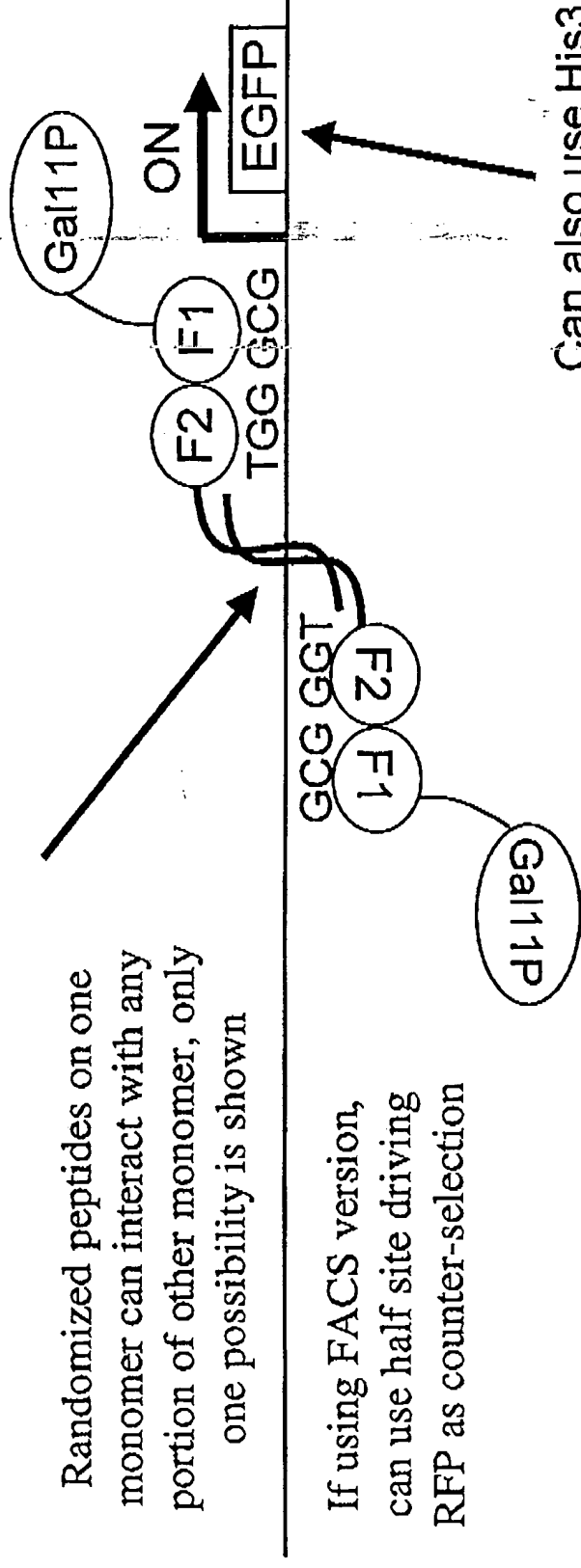
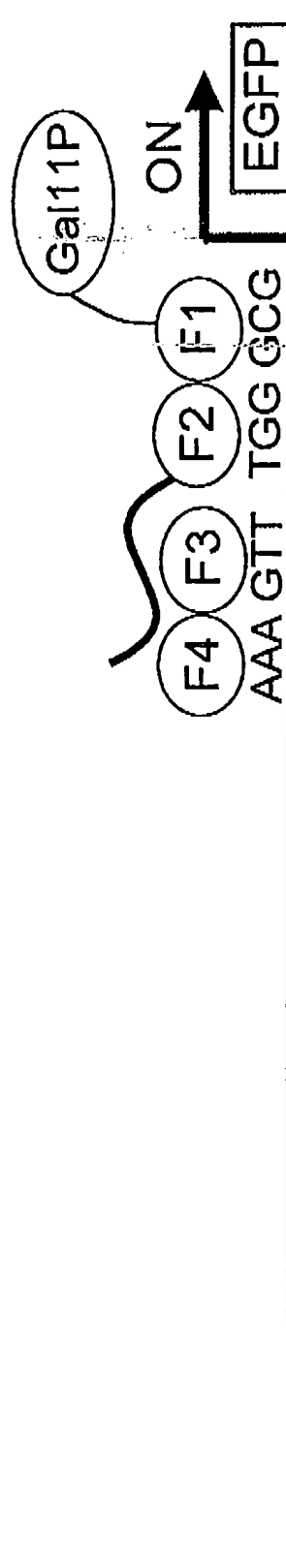


FIG. 12

Selecting Dimerization Domains

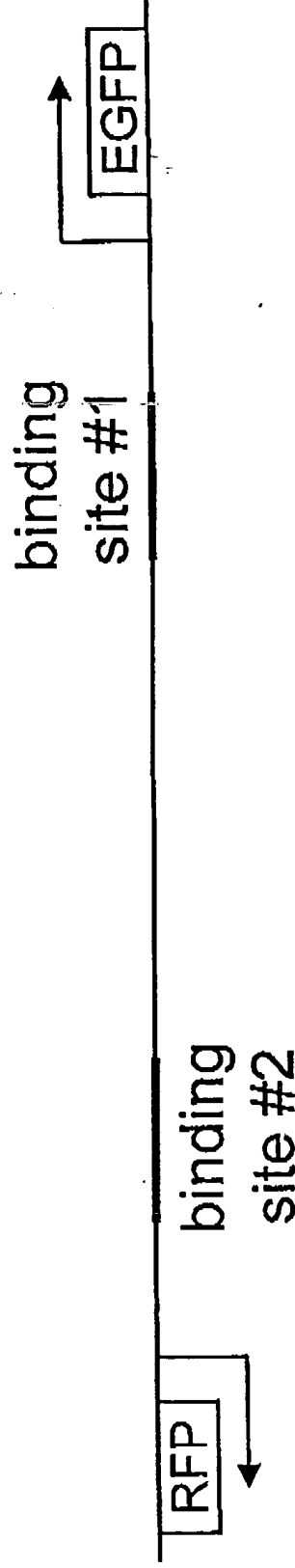
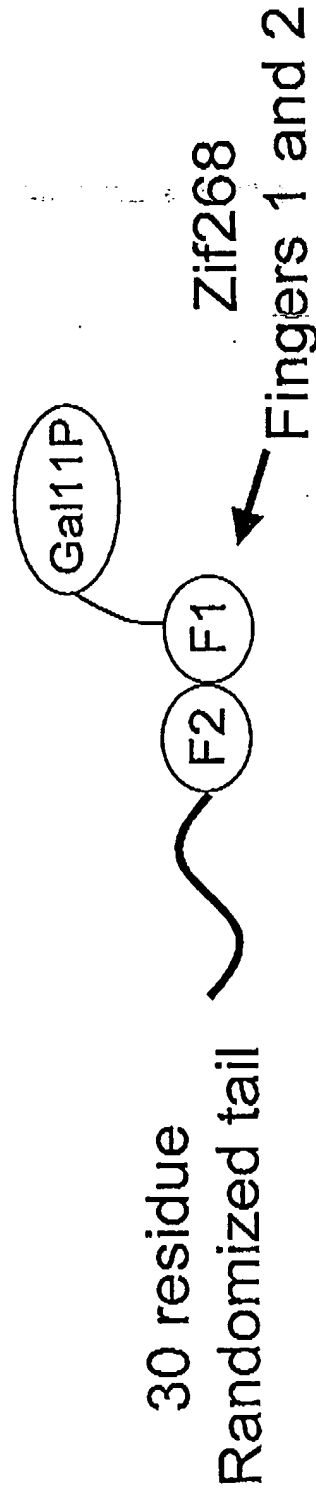
Head to Tail



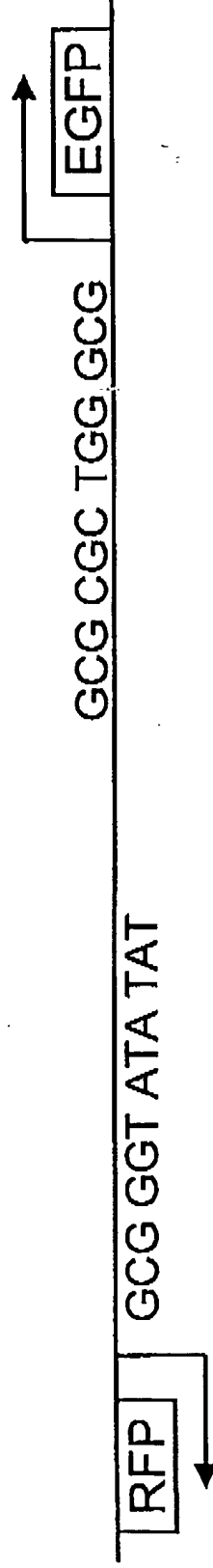
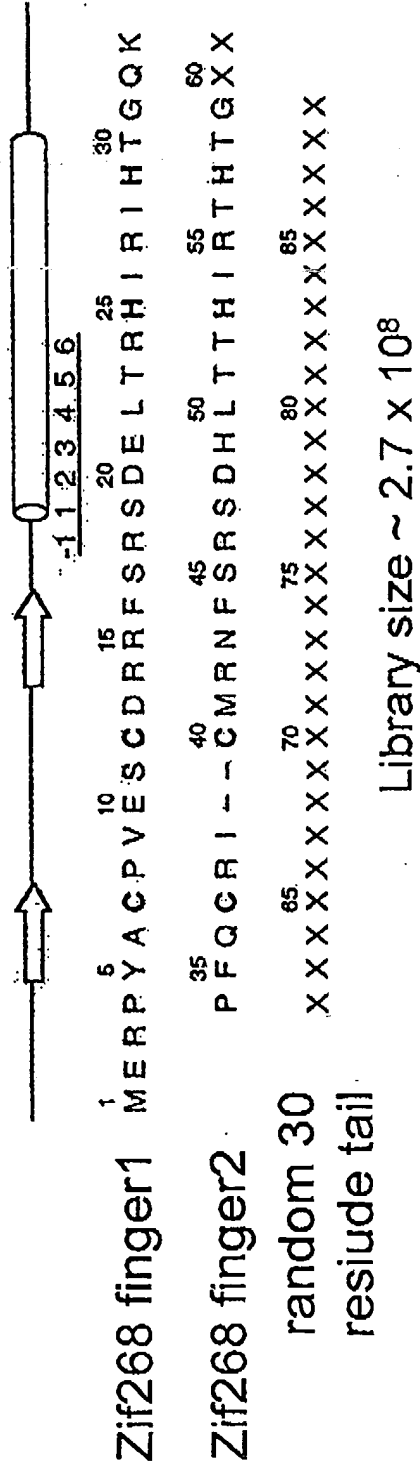
If using FACS version,
can use half site driving
RFP as counter-selection

Can also use His3

Selecting sequence-specific domains from random peptides



Sequence of library and reporter



Sequence of library and reporter

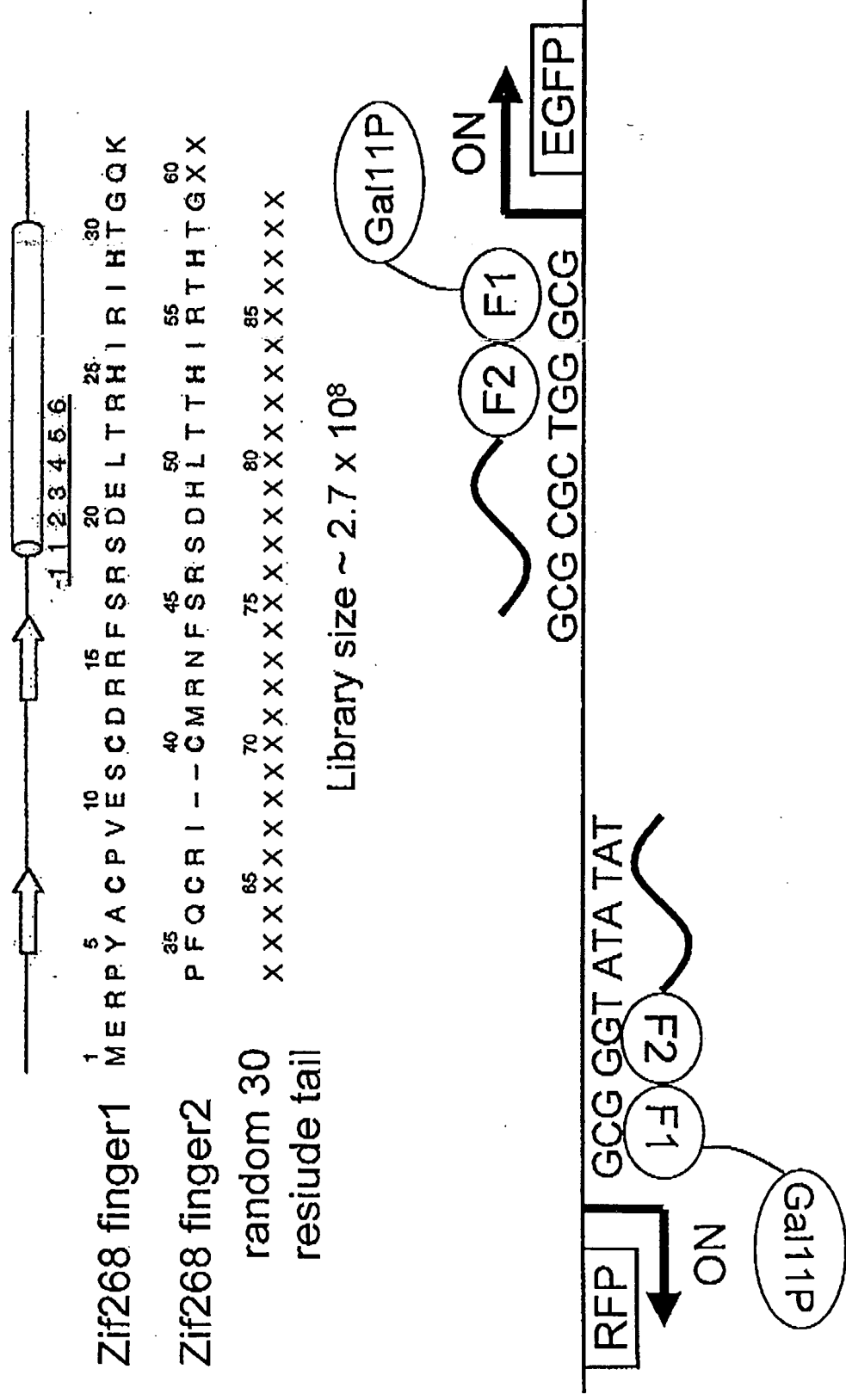
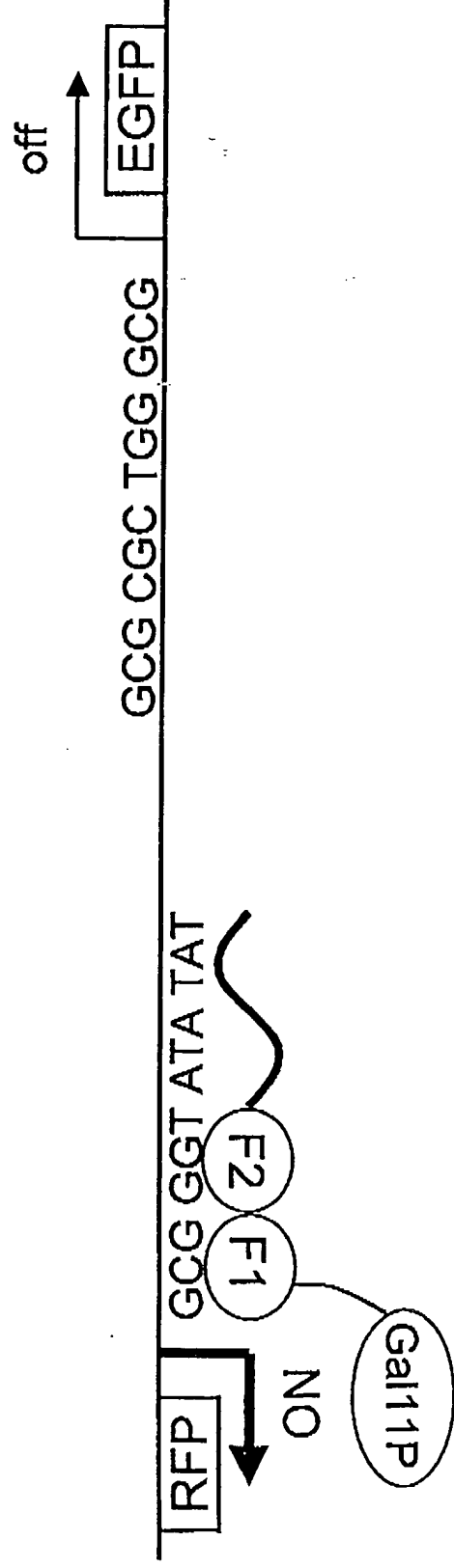
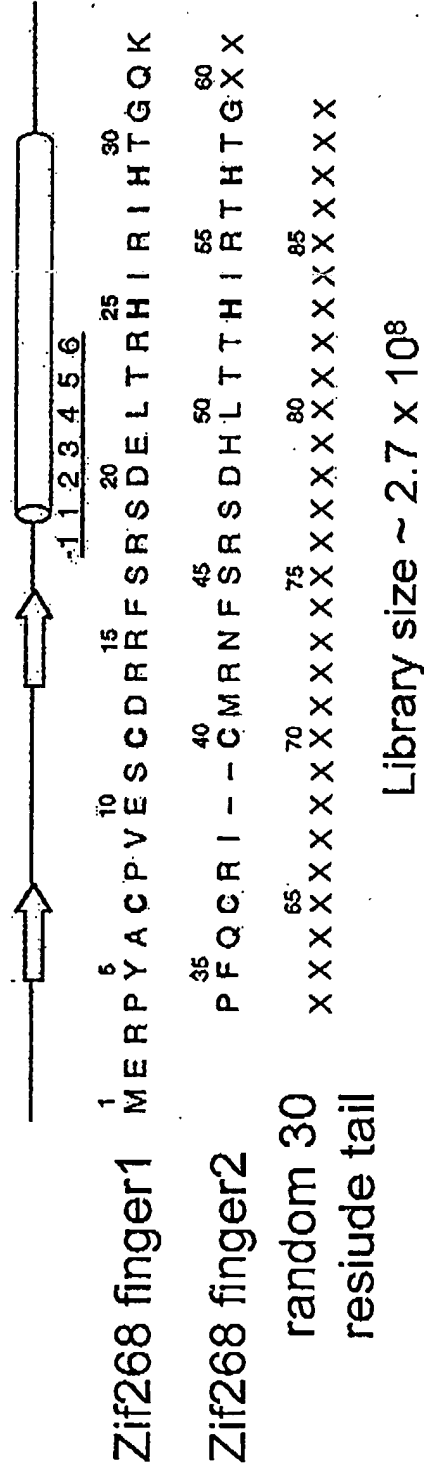


FIG. 16

Sequence of library and reporter



Sequence of library and reporter

